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# **California Board of Registered Nursing**

## **2007-2008 Annual School Report**

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Data Summary and Historical Trend Analysis

A Presentation of Pre-Licensure Nursing Education Programs in California

### **Northern Sacramento Valley**

March 30, 2009

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## INTRODUCTION

Each year, the California Board of Registered Nursing (BRN) requires all pre-licensure registered nursing programs in California to complete a survey detailing statistics of their programs, students and faculty. The survey collects data from August 1 through July 31. Information gathered from these surveys is compiled into a database and used to analyze trends in nursing education.

The BRN commissioned the University of California, San Francisco (UCSF) to conduct a historical analysis of data collected from the 2000-2001 survey through the 2007-2008 survey. In this report, we present eight years of historical data from the BRN Annual School Survey. Data analyses were conducted statewide and for nine economic regions<sup>1</sup> in California, with a separate report for each region. All reports are available on the BRN website (<http://www.rn.ca.gov/>).

This report presents data from the 5-county Northern Sacramento Valley region. Counties in the region include Butte, Colusa, Glenn, Shasta, and Tehama. All data are presented in aggregate form and describe overall trends in the areas and over the times specified and, therefore, may not be applicable to individual nursing education programs. Additional data from the past eight years of the BRN Annual School Survey are available in an interactive database on the BRN website.

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<sup>1</sup> The nine regions include: (1) Northern California, (2) Northern Sacramento Valley, (3) Greater Sacramento, (4) Bay Area, (5) San Joaquin Valley, (7) Central Coast, (8) Southern California I (Los Angeles and Ventura counties), (9) Southern California II (Orange, Riverside, and San Bernardino counties), and (10) Southern Border Region. Counties within each region are detailed in the corresponding regional report. The Central Sierra (Region 6) does not have any nursing education programs and was, therefore, not included in the analyses.

## DATA SUMMARY AND HISTORICAL TREND ANALYSES

This analysis presents pre-licensure program data from the 2007-2008 BRN Annual School Survey in comparison with data from previous years of the survey. Data items addressed include the number of nursing programs, enrollments, completions, retention rates and student and faculty census data.

### Trends in Pre-Licensure Nursing Programs

#### *Number of Nursing Programs*

There are three nursing programs in the Northern Sacramento Valley region that lead to RN licensure. Of these programs, two are ADN programs and one is a BSN program. All programs in this region are public.

#### **Number of Nursing Programs**

	<i>Academic Year</i>							
	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005</i>	<i>2005-2006</i>	<i>2006-2007</i>	<i>2007-2008</i>
<b>Total # Nursing Programs</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<i>ADN Programs</i>	2	2	2	2	2	2	2	2
<i>BSN Programs</i>	1	1	1	1	1	1	1	1
<i>ELM Programs</i>								
<i>Public Programs</i>	3	3	3	3	3	3	3	3
<i>Private Programs</i>	0	0	0	0	0	0	0	0

#### *Admission Spaces and New Student Enrollments*

Admission spaces available for new student enrollments increased by 52.8% (n=76), from 144 spaces in 2000-2001 to 220 in 2007-2008. These spaces were filled with a total of 237 students, increasing new student enrollment by 64.6% (n=93) from 2000-2001.

#### **Availability and Utilization of Admission Spaces**

	<i>Academic Year</i>							
	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005</i>	<i>2005-2006</i>	<i>2006-2007</i>	<i>2007-2008</i>
Spaces Available	144	140	151	156	220	228	206	220
New Student Enrollments	144	140	149	156	220	293	239	237
% Spaces Filled	100.0%	100.0%	98.7%	100.0%	100.0%	128.5%	116.0%	107.7%

For the second time in eight years, there was a drop in the number of qualified applications to Northern Sacramento Valley nursing programs. Although nursing programs still receive more applications requesting entrance into their programs than can be accommodated, the share of qualified applications not accepted for admission dropped from 66.1% (n=466) in 2005-2006 to 61.2% (n=374) in 2007-2008.

### Applications Accepted and Not Accepted for Admission

	<i>Academic Year</i>							
	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005</i>	<i>2005-2006</i>	<i>2006-2007</i>	<i>2007-2008</i>
<b>Qualified Applications</b>	<b>268</b>	<b>124</b>	<b>257</b>	<b>266</b>	<b>523</b>	<b>697</b>	<b>705</b>	<b>611</b>
<i>Accepted</i>	144	140	149	156	220	293	239	237
<i>Not Accepted</i>	124	-16	108	110	303	404	466	374
% Qualified Applications <i>Not Accepted</i>	46.3%	*NA	42.0%	41.4%	57.9%	58.0%	66.1%	61.2%

\*\*Since these data represent applications rather than individuals, an increase in qualified applications may not represent equal growth in the number of individuals applying to nursing school.

Enrollments in all types of pre-licensure nursing education programs in the region have increased by 64.6% (n=93) since 2000-2001. In 2007-2008, enrollments in ADN programs decreased slightly while BSN program enrollments increased slightly. These changes in enrollment resulted in a total new student enrollment in the region that was about the same in 2007-2008 as it was in the previous year. The majority (61.6%) of nursing students in the Northern Sacramento Valley are educated in public ADN programs.

### New Student Enrollment by Program Type

	<i>Academic Year</i>							
	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005</i>	<i>2005-2006</i>	<i>2006-2007</i>	<i>2007-2008</i>
<b>New Student Enrollment</b>	<b>144</b>	<b>140</b>	<b>149</b>	<b>156</b>	<b>220</b>	<b>293</b>	<b>239</b>	<b>237</b>
<i>ADN</i>	64	80	88	96	120	174	158	146
<i>BSN</i>	80	60	61	60	100	119	81	91
<i>ELM</i>								
<i>Private</i>								
<i>Public</i>	144	140	149	156	220	293	239	237

### Student Completions

The number of students who completed a nursing program in the Northern Sacramento Valley Region increased by 49.3% (n=67), from 136 in 2000-2001 to 203 in 2007-2008. Of the 203 student completions in the region, 62.1% (n=126) completed an ADN program and 37.9% (n=77) completed a BSN program. Despite the increase in student completions since 2000-2001, data show that fewer students completed nursing programs in the region in 2007-2008 than in the previous year.

#### Student Completions

	<i>Academic Year</i>							
	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005</i>	<i>2005-2006</i>	<i>2006-2007</i>	<i>2007-2008</i>
<b>Student Completions</b>	<b>136</b>	<b>114</b>	<b>144</b>	<b>138</b>	<b>157</b>	<b>164</b>	<b>224</b>	<b>203</b>
ADN	81	60	75	77	88	109	149	126
BSN	55	54	69	61	69	55	75	77
ELM								

### Retention Rate

Of the 216 students scheduled to complete a nursing program in the 2007-2008 academic year, 83.3% (n=180) completed the program on-time, 1.9% (n=4) are still enrolled in the program, and 14.8% (n=32) dropped out or were disqualified from the program. The retention rate decreased from 91.9% (n=194) in 2006-2007 to 83.3% (n=180) in 2007-2008.

#### Student Cohort Completion and Retention Data

	<i>Academic Year</i>							
	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005</i>	<i>2005-2006</i>	<i>2006-2007</i>	<i>2007-2008</i>
<b>Enrollment</b>	<b>124</b>	<b>139</b>	<b>185</b>	<b>158</b>	<b>188</b>	<b>160</b>	<b>211</b>	<b>216</b>
Completed On Time	110	115	152	138	154	143	194	180
Still Enrolled	1	6	8	3	4	3	8	4
Attrition	13	18	25	17	30	14	9	32
<b>Retention Rate*</b>	88.7%	82.7%	82.2%	87.3%	81.9%	89.4%	91.9%	83.3%
<b>Attrition Rate</b>	10.5%	12.9%	13.5%	10.8%	16.0%	8.8%	4.3%	14.8%
<b>% Still Enrolled</b>	0.8%	4.4%	4.3%	1.9%	2.1%	1.8%	3.8%	1.9%

\*Retention rate = (students who completed the program on-time) / (enrollment)

There has been fluctuation in the retention and attrition rates over the eight-year period documented in the above table. There were changes to the survey between 2003-2004 and 2004-2005, and between 2004-2005 and 2005-2007 that may have affected the comparability of these data over time.

### *Student Census Data*

The total number of students enrolled in Northern Sacramento Valley nursing programs more than doubled, from 257 on October 15, 2001, to 519 on October 15, 2008.

The reported number of pre-nursing students increased from zero in 2007 to 375 in 2008. This increase may be due to a greater number of programs reporting data than to an actual increase in the number of pre-nursing students.

### **Student Census Data**

<b>Program Track</b>	<b>Academic Year</b>							
	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
ADN Program	87	139	130	85	197	230	298	255
BSN Program	170	167	165	165	193	235	246	264
ELM Program								
<b>Total Nursing Students</b>	<b>257</b>	<b>306</b>	<b>295</b>	<b>250</b>	<b>390</b>	<b>465</b>	<b>544</b>	<b>519</b>
Pre-Nursing Students					292	465	0	375

\*Blank cells indicated that the applicable information was not requested in the given year.

### *Clinical Simulation in Nursing Education*

Data show that 66.7% (n=2) of the three nursing schools in the Northern Sacramento Valley region used a clinical simulation center<sup>2</sup> between 8/1/07 and 7/31/08. All of the schools in the region that use clinical simulation centers reported that they use these facilities to standardize clinical experiences, to provide clinical experience not available in a clinical setting, and to check clinical competencies. Data also show that all of the nursing schools in the region that currently use a clinical simulation center have plans to expand it.

<b>Reasons for Using a Clinical Simulation Center*</b>	<b>2007-2008</b>
To standardize clinical experiences	100.0%
To provide clinical experience not available in a clinical setting	100.0%
To check clinical competencies	100.0%
To make up for clinical experiences	50.0%
To increase capacity in your nursing program	50.0%
Number of schools that use a clinical simulation center	2

\*These data were collected for the first time in 2006-2007. However, changes in these questions for the 2007-2008 administration of the survey and lack of confidence in the reliability of the 2006-2007 data prevent comparability of the data. Therefore, data from previous years of the survey are not shown.

<sup>2</sup> Clinical Simulation Center/Experience - students have a simulated real-time nursing care experience using hi-fidelity mannequins and clinical scenarios, which allow them to integrate, apply, and refine specific skills and abilities that are based on theoretical concepts and scientific knowledge. The experience includes videotaping, de-briefing and dialogue as part of the learning process.

### Faculty Census Data

The total number of nursing faculty in the Northern Sacramento Valley region decreased by 4.8% (n=4) over the last year. On October 15, 2008, there were 80 total nursing faculty. Of these faculty, 45% (n=36) were full-time and 55% (n=44) were part-time. For the first time in three years, nursing schools in the region reported no faculty vacancies.

### Faculty Data

	<i>Academic Year</i>							
	<i>2000-2001</i>	<i>2001-2002</i>	<i>2002-2003</i>	<i>2003-2004</i>	<i>2004-2005*</i>	<i>2005-2006</i>	<i>2006-2007</i>	<i>2007-2008</i>
<b>Total Faculty</b>	<b>39</b>	<b>41</b>	<b>45</b>	<b>47</b>	<b>37</b>	<b>63</b>	<b>84</b>	<b>80</b>
<i>Full-time</i>	30	25	25	26	20	30	33	36
<i>Part-time</i>	9	16	20	21	17	33	51	44
<b>Vacancy Rate**</b>		<b>2.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>4.5%</b>	<b>6.7%</b>	<b>0.0%</b>
<i>Vacancies</i>		1	0	0	0	3	6	0

In 2004-2005, 2005-2006 and 2006-2007, the sum of full- and part-time faculty did not equal the total faculty reported.

\*Faculty vacancies were estimated based on the vacant FTEs reported.

\*\*Vacancy rate = number of vacancies/(total faculty + number of vacancies)

### Summary

In the past eight years, the number of admission spaces available in pre-licensure nursing education programs in the Northern Sacramento Valley region increased by 52.8% (n=76). New student enrollments in these programs increased by 64.6% (n=93) during the same time period. More recently, growth in these programs has plateaued. Although the number of admission spaces available increased by 6.8% (n=14) between 2006-2007 and 2007-2008, the number of qualified applications decreased and new student enrollments stayed about the same during the one-year time period.

Student completions in the region have increased by 49.3% (n=67) since 2000-2001. However, the number of student completions and the student retention rate have decreased in the last year. Subsequent years of data will reveal whether these data signify a new trend in the region.

After reporting the highest faculty vacancy rate in the region in eight years – 6.7% in 2006-2007 – nursing schools in the region reported no faculty vacancies in 2007-2008.

**APPENDIX A – Northern Sacramento Valley Nursing Education Programs****ADN Programs**

Butte College  
Shasta Community College

**BSN Programs**

CSU Chico

**APPENDIX B – BRN Education Advisory Committee Members****BRN Education Advisory Committee Members****Members**

Sherry Fox, Chair  
Barbara Whitney  
Deloras Jones  
Jim Comins  
Loucine Huckabay  
Margaret Craig  
Marilyn Herrmann  
Stephanie Leach  
Sue Albert

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